

FACILITY STATUS CHANGE FORM

Date Submitted: January 24, 2013 Originator: Chris Strand Phone: 554-2720	Area: 300 Area Facility ID: 3506A and 3506B Action Memorandum: Action Memorandum #3	Control #: D4-300-078
---	---	---------------------------------

This form documents agreement among the parties listed below on the status of the facility D&D operations and the disposition of underlying soil in accordance with the applicable regulatory decision documents.

Section 1: Facility Status

- ☒ All D4 operations required by action memo complete.
☐ D4 operations required by action memo partially complete, remaining operations deferred.

Description of Completed Activities and Current Conditions:

Deactivation: Utility isolations were performed on the facilities prior to beginning removal actions.

Both 3506A and 3506B buildings underwent above-grade demolition in 2005 prior to the River Corridor Contract. Following above-grade demolition, both slabs remained. Therefore no hazardous material removal was necessary prior to below-grade demolition.

Demolition: Below-grade demolition of the 3506A and 3506B slabs were completed in December 2012. The excavation area was backfilled to grade with clean fill. Slab and foundation debris from demolition was removed and disposed of at ERDF. The demolition was performed with Radiological and Industrial Hygiene controls.

Description of Deferral (as applicable):

N/A

Section 2: Underlying Soil Status

- ☐ No waste site(s) present. No additional actions anticipated.
☒ Documented waste site(s) present. Cleanup and closeout to be addressed under Record of Decision.
☐ Potential waste site discovered during D4 operations. Waste site identification number <to be> assigned.
Cleanup and closeout to be addressed under Record of Decision.

Description of Current/As-Left Conditions:

All above-grade structures and foundations were removed. Excavations were backfilled to grade with clean fill. GPERS surveys were performed prior to backfill. No radiological or Industrial Hygiene postings remain.

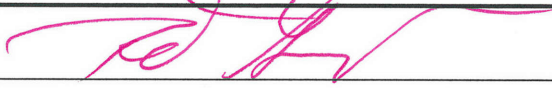
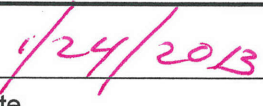
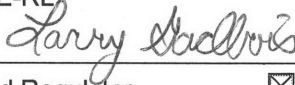
Identification of Documented Waste Site(s) or Nature of Potential Waste Site Discovery (as applicable):

300-15 process sewer segments remain in the area.
300-116 (rejected UIC well) was removed at 3506A.
300-117 (rejected UIC well) was removed at 3506A.

Section 3: List of Attachments

1. Facility information (building history, characterization and identification of documented waste sites).
2. Project photographs.
3. GPERS Survey of the 3506A and 3506B excavation.

FACILITY STATUS CHANGE FORM

		
DOE-RL 		Date <u>Jan 24, 2013</u>
Lead Regulator	<input checked="" type="checkbox"/> EPA <input type="checkbox"/> Ecology	Date

DISTRIBUTION:

EPA: Larry Gadbois, B1-46

Ecology: Rick Bond, H0-57

DOE: Rudy Guercia, A3-04

Document Control, H0-30

Administrative Record, H6-08 (300-FF-2 OU)

SIS Coordinator: Ben Cowin, H4-22

D4 EPL: Chris Strand, L4-45

Sample Design/Cleanup Verification: Theresa Howell, H4-22

FR Engineering: Eric Ison, L4-32

FR EPL: Chris Strand, L4-45

Attachment 1: Facility Information

Building Histories:

3506A Powerhouse Maintenance Shop

The eastern portion of the 3506A Building (axis running north-south) was built in 1944 and was the original rectangular portion of the structure. During the 1960's or 70's, a western addition was constructed. The dimensions of the original building were 20 ft east-west by 44 ft north-south. The addition measures approximately 28 ft by 36 ft. The original structure consisted of concrete block with built-up roofing over cast-in-place concrete and structural steel.

The 3506A building was located near the intersection of Apple Street and Wisconsin Avenue and originally housed phone service equipment as part of the Hanford Engineer Works (HEW) telephone network installed in 1943-44. The 3506A building's function changed at an unknown date in the 1960's or 70's and became the Powerhouse Mechanical Maintenance Shop and housed maintenance and shop personnel supporting the 384 Power House, which supplied steam to 300 Area buildings.

3506B Maintenance Shop

The 3506-B building was a prefabricated metal structure on a concrete pad constructed in 1973. The facility was used as a maintenance shop until undergoing deactivation. 3506B was located directly west of the extension to the 3506A building, between Idaho Street and Wisconsin

Both 3506A and 3506B above-grade were demolished in 2005, prior to the River Corridor Contract. The information in this Facility Status Change Form documents removal of the at-grade slabs and below-grade foundations.

3506A and 3506B Slabs Characterization

Table 1 summarizes the industrial hygiene, radiological control, and asbestos samples collected prior to demolition of both slabs.

Table 1. Summary of Characterization Surveys at 3506A and 3506B

Type	Date	Documented In	Results Summary
Asbestos	April 10, 2012	CCN # 164959	ACM not identified as a COC.
IH Surveys and Beryllium Characterization	May 3, 2012	CCN# 165864	Both slabs determined to be Be free. All other contaminants of concern below action levels.
Radiological Surveys	April 2, 2012	RSR-300PS-12-1133 RSR-300PS-12-1134	No radiological contamination identified.

Associated WIDS sites:

300-15 process sewer segments remain in the area.
300-116 (rejected UIC well) was removed at 3506A.
300-117 (rejected UIC well) was removed at 3506A.

Anomalies Discovered During Demolition.

During removal of the 3506B, asphalt was encountered beneath the slab. It was determined the building was installed over a pre-existing asphalt apron that surrounded 3506A. All asphalt was removed from the excavation prior to backfill.

During removal of 3506B footings, a plastic bag was unearthed and partially torn open. Work was stopped and a closer inspection identified the bag contained PPE (coveralls, respirators, and respirator cartridges) and a white powder substance. Radiological surveys identified no contamination. To facilitate an expedited response, the white powder was declared presumed asbestos containing material (ACM). The area was posted and the debris, including the powder, was hand removed and bagged under ACM controls. Following cleanup, the area was inspected and down-posted by an ACM competent person.

A final inspection of the 3506A excavation identified some dark streaking/stained soils along the east side of the layback. A closer inspection confirmed the material was asphalt that was introduced into the layback face from the excavator penetrating the asphalt apron that surrounded the building. All asphalt contamination was hand removed from the excavation prior to backfill as confirmed by a second visual inspection.

A final GPERS survey of the common excavation following below-grade demolition identified no contamination.

Attachment 2: Project Photographs

Photograph 1: 3506A looking south, January 26, 2005.



Photograph 2. 3506B looking south on January 26, 2005.



Photograph 3. 3506A slab looking south March 29, 2012.



Photograph 4. 3506B slab looking southeast on March 29, 2012.



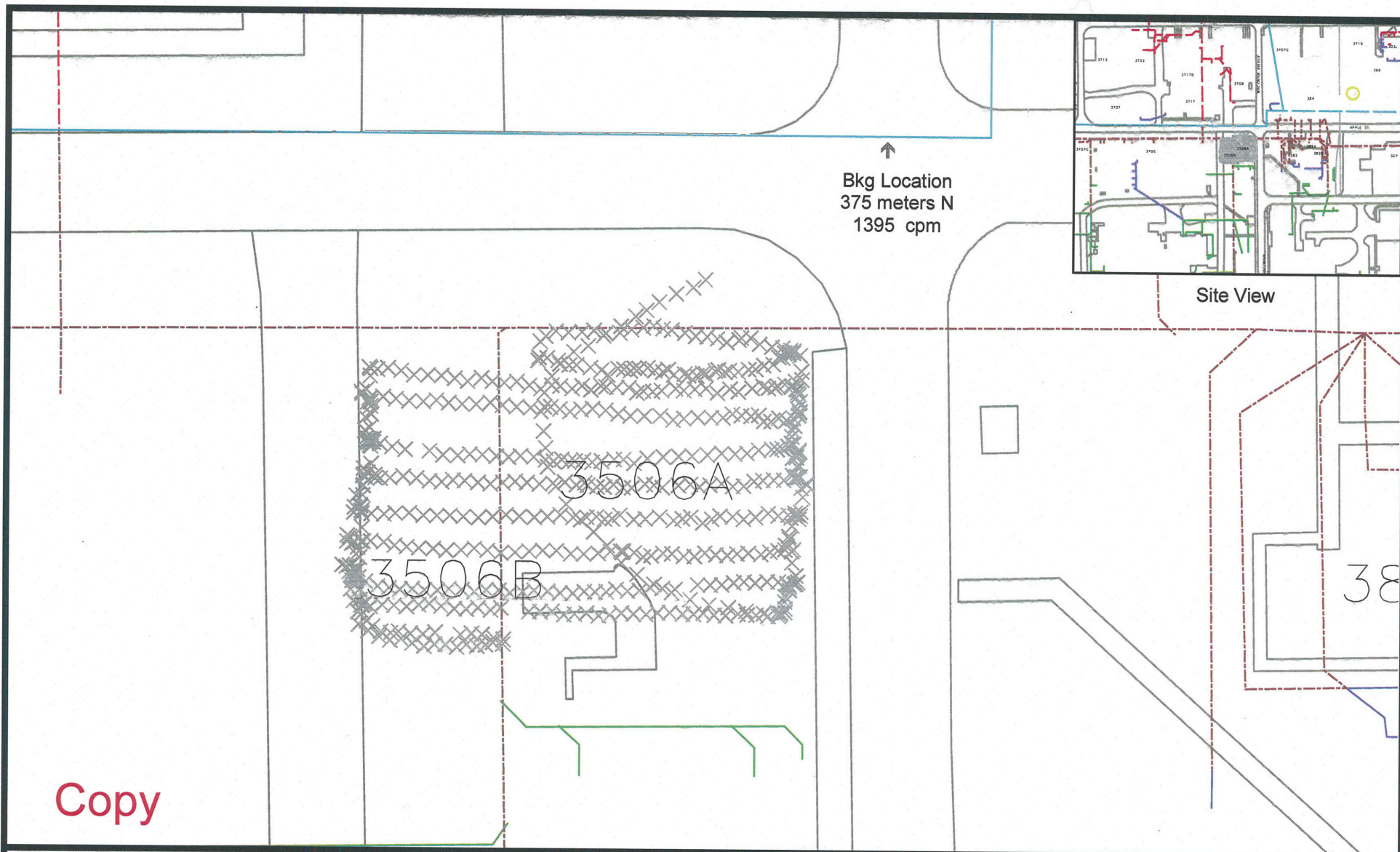
Photograph 5. 3506A and 3506B excavation looking south on January 2, 2013.



Photograph 6. 3506A and 3506B following backfill, looking southwest on January 14, 2013



**Attachment 3: GPERS Survey of the 3506A and 3506B Excavation
Prior to Backfill**



Legend

NET CPM

- × <2092
- 2092 - 5000
- 5000 - 10000
- 10000 - 25000
- 25000

Summary Statistics

Coverage File: D4_0003A
 Number of Data Pnts: 634
 Type of Survey: gamma
 Max GCPM: 1869
 Avg Bkg CPM: 1395
 Survey Date: 1/3/2013
 Area Surveyed: 495 m²
 Project File: ESRFRM130002
 Pdf File: ESRFRM130002C

300 D4 3506A, 3506B Slab GPERS Radiological Survey Gamma Track Map

0 2 4 6 8 10

Meters



Survey Map Prepared By Bruce Coomer, ESI